**SUBJECT: B.Com (Hons)**

**SEMESTER –I**

**QUANTITATIVE TECHNIQUES-I**

**W.E.F- 2018-19**

**Unit 1: Introduction to Statistics**

History -Meaning – Definition –Statistical as data – features of statics – functions of statistics - importance and limitations – Concepts of statistical investigation – procedure of Statistical investigation.

**Unit 2: Classification and Tabulation**

Concept – Definitions – Functions of classifications – Methods of classifications – Tabulation – Essentials of Good Table – Components of
a table - Types of table.

**Unit 3 : Diagrammatic and graphical presentation of data**

Meaning–features– importance and limitations –Rules of Constructions of diagram- Types of Diagrams. Bar Diagram, Line Diagram, Circle – Graphical Presentation of Data

**Unit 4: Central Tendency**

Measures of Central Tendency – Requisites of good measure of central Tendency – Mean, Median, Mode, Geometric Mean and Harmonic Mean – Merits and Demerits of Averages of Location of Medium and Mode Graphically

**Unit 5: Dispersion**

Measures of Dispersion - Requisites of good measures of Dispersion – Range – Quartiles Deviation, Mean deviation, -Variance and Standard Deviation – Coefficient of Variation – Merits and Demerits of measures of dispersion – Lorenz Curve

**Reference Books**:

1. Quantitative Techineques by Dr. Sathya Devi – S.Chand
2. Business Statistics – Kalyani Publications
3. Business Statistics – Himalayan Publishers

**SRI VENKATESWARA UNIVERSITY**

B. Com (Hons) I SEMESTER MODEL QUESTION PAPER

**SUBJECT:- QUANTITATIVE TECHNIQUES**

**W.E.F- 2018-19**

TIME: 3 HOURS MAX. MARKS: 75

**SECTION-A**

Answer any **FIVE** questions. Each question carries 3 marks. **(5**X**3=15)**

**1**. (a) Meaning of statistics.

(b) Primary data.

(c) Frequency distribution.

(d) Define central tendency.

(e) Tabulation

 (f) What is range?

(g) Two properties of Dispersion.

(h) Meaning of Diagrams

 (i) Define Standard deviation.

(j) Compute Harmonic Mean : **X: 35,45,89,76,87,52,60**

**SECTION-B**

Answer **FIVE** questions, choosing **ONE** question from each Unit. (5X12=60)

**UNIT-I**

**2**. Explain the functions and limitations of statistics.

**(OR)**

**3**. Explain the statistical Investigation and its Procedure

**UNIT-II**

**4**. Explain Classification of Data and Methods of classification

**(OR)**

**5**. Explain the essentials of Good Table and its components

**UNIT-III**

**6**. Present the following data by means of a give Curve

 Marks: 10-15 15-20 20-25 25-30 30-40 40-50 50-60

No. of students : 7 19 27 15 12 12 8

**(OR)**

**7**. Prepare a suitable diagram to the following data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item of Expenditure** | Food | Rent | Health | Education | Miscellaneous |
| **Family X** | 1600 | 800 | 400 | 800 | 500 |
| **Family Y** | 3600 | 1800 | 900 | 400 | 250 |

**UNIT IV**

  **8**. Calculate Mean, Median, for the following data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| C.I | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| Frequency | 12 | 30 | 34 | 65 | 45 | 25 | 18 |

**(OR)**

  **9**. Calculate Geometric Mean for the data given below

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| F | 8 | 10 | 20 | 29 | 37 | 18 | 9 | 6 |

**UNIT-V**

 **10**. Calculate mean deviation and standard deviation for the following data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| C.I | 50-100 | 100-150 | 150-200 | 200-250 | 250-300 | 300-350 | 350-400 |
| F | 5 | 5 | 8 | 2 | 10 | 7 | 2 |

**(OR)**

 **11**. Calculate Quartile deviation for the following

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | 50-100 | 100-150 | 150-200 | 200-250 | 250-300 | 300-350 | 350-400 | 400-450 |
| Y | 5 | 5 | 8 | 2 | 10 | 7 | 2 | 1 |